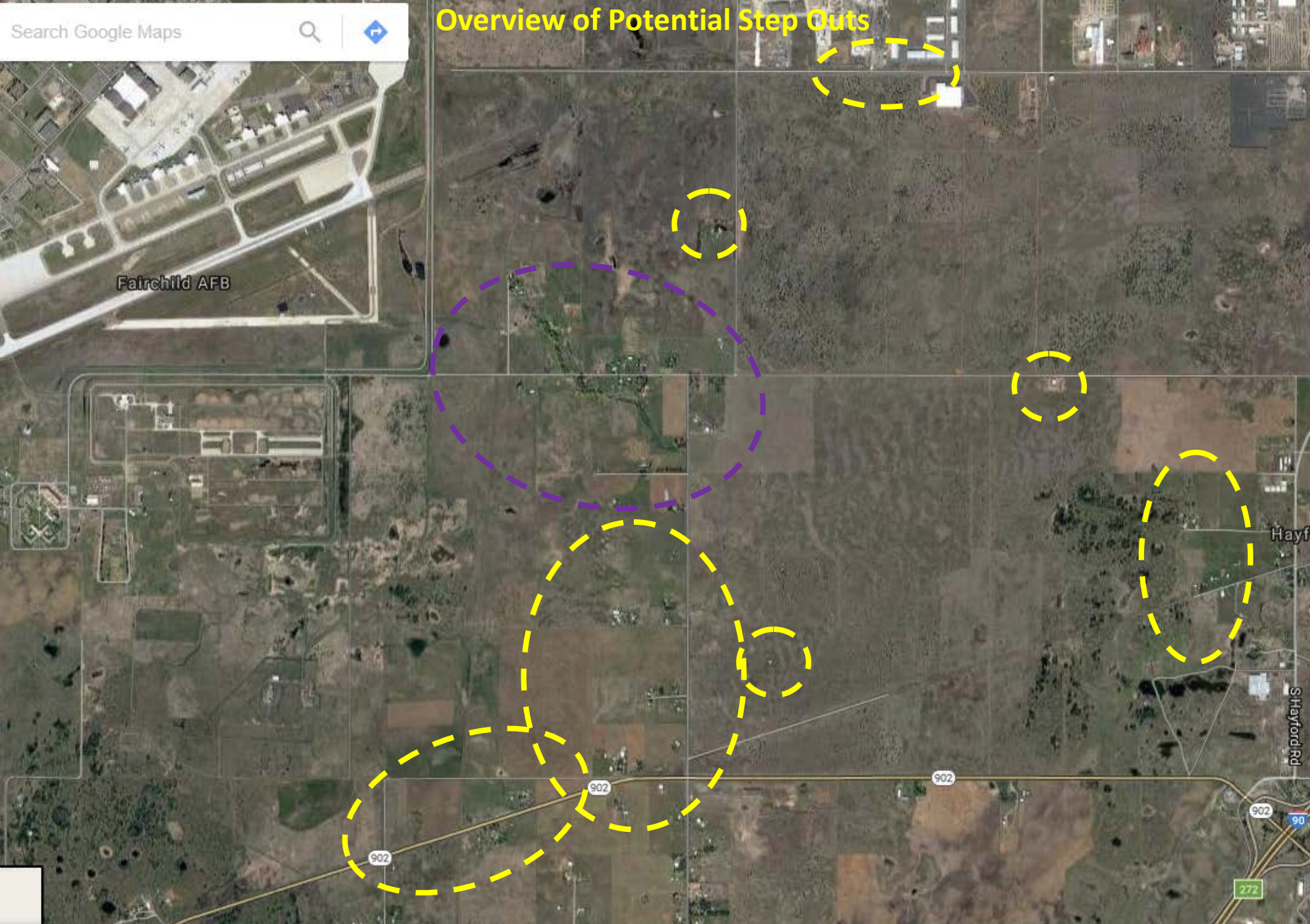


Overview of Potential Step Outs



Fairchild AFB

Hayf

SHayford Rd

902

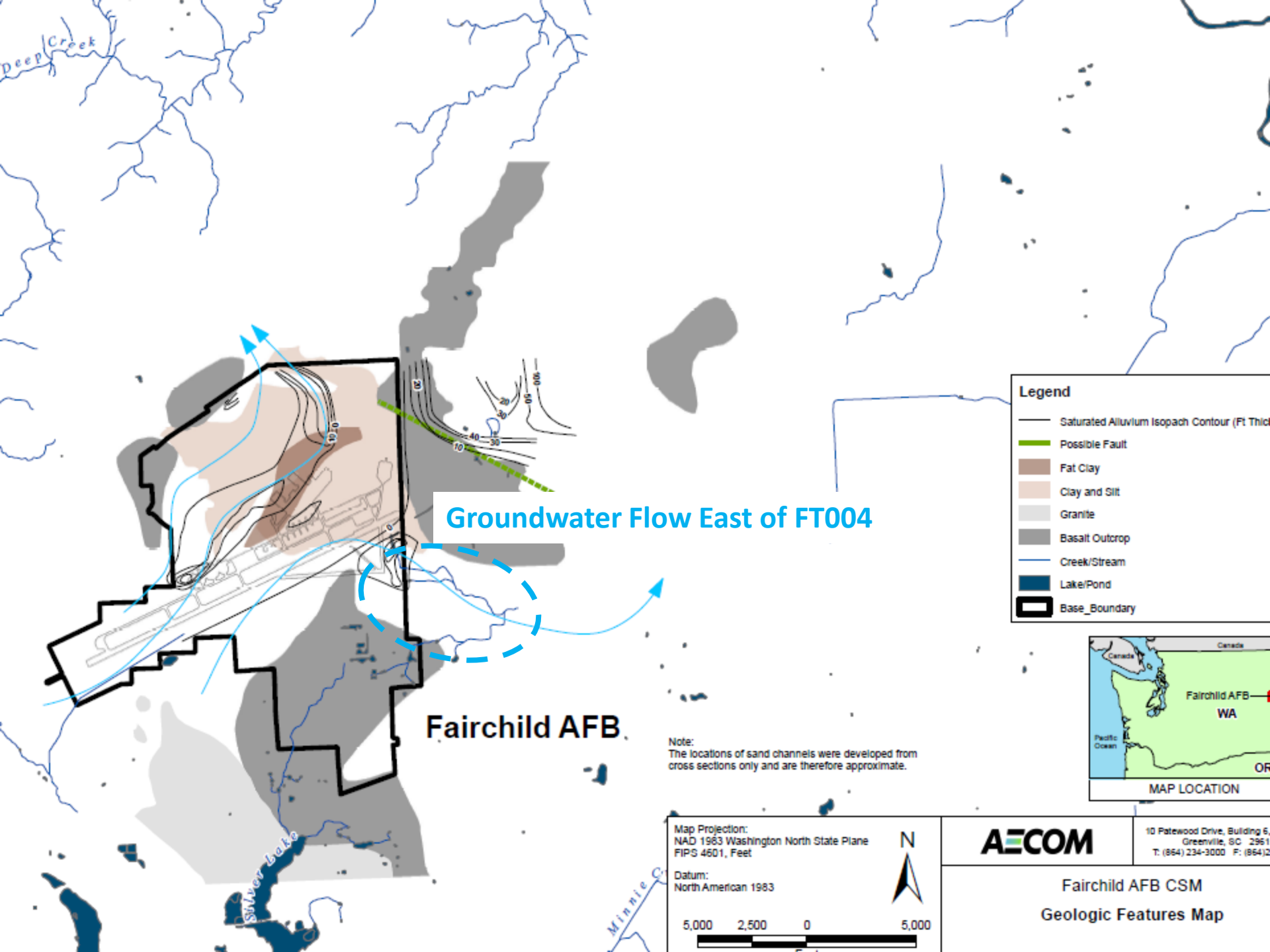
902

902

902

90

272



Groundwater Flow East of FT004

Fairchild AFB

Legend

- Saturated Alluvium Isopach Contour (Ft Thick)
- Possible Fault
- Fat Clay
- Clay and Silt
- Granite
- Basalt Outcrop
- Creek/Stream
- Lake/Pond
- Base_Boundary

Note:
The locations of sand channels were developed from cross sections only and are therefore approximate.

Map Projection:
NAD 1983 Washington North State Plane
FIPS 4601, Feet

Datum:
North American 1983

5,000 2,500 0 5,000

AECOM

10 Patewood Drive, Building 6
Greenville, SC 29611
T: (864) 234-3000 F: (864) 234-3001

Fairchild AFB CSM
Geologic Features Map

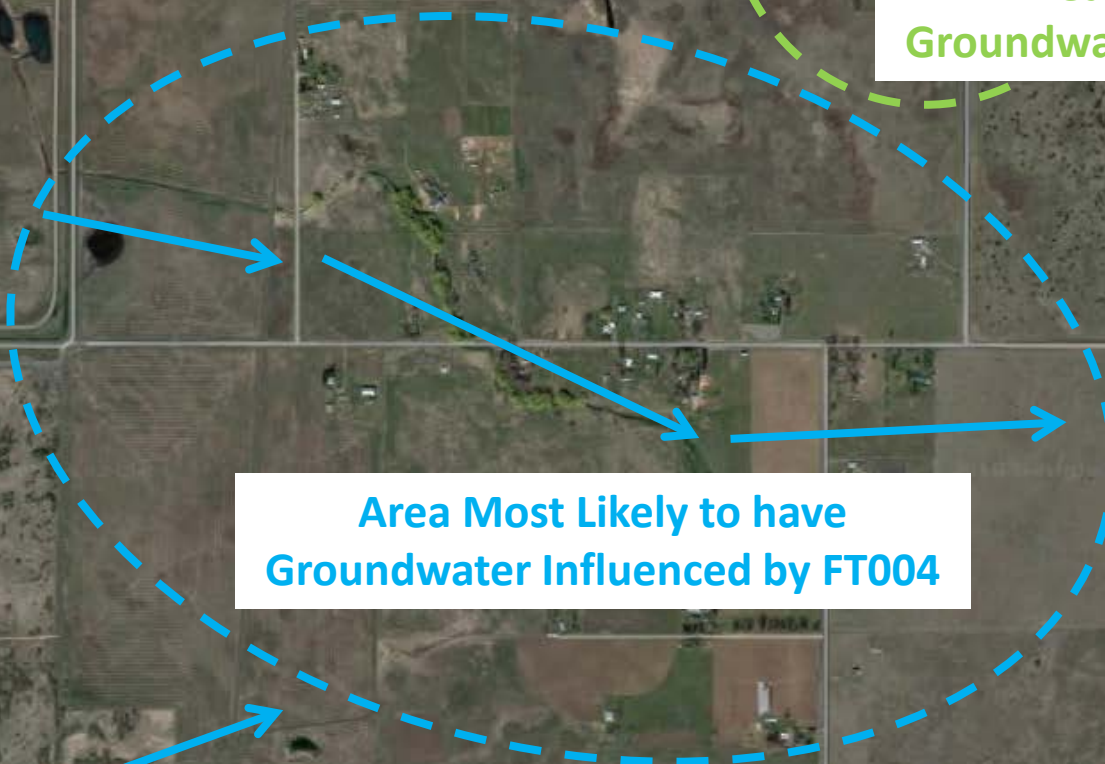


MAP LOCATION



Sign

Area Not Likely to have
Groundwater Influenced by FT004

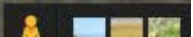


Area Most Likely to have
Groundwater Influenced by FT004

Possible Groundwater
Influenced by FT004
but No Current
Receptors

Area Not Likely to have
Groundwater Influenced by FT004

West Wind Kennels



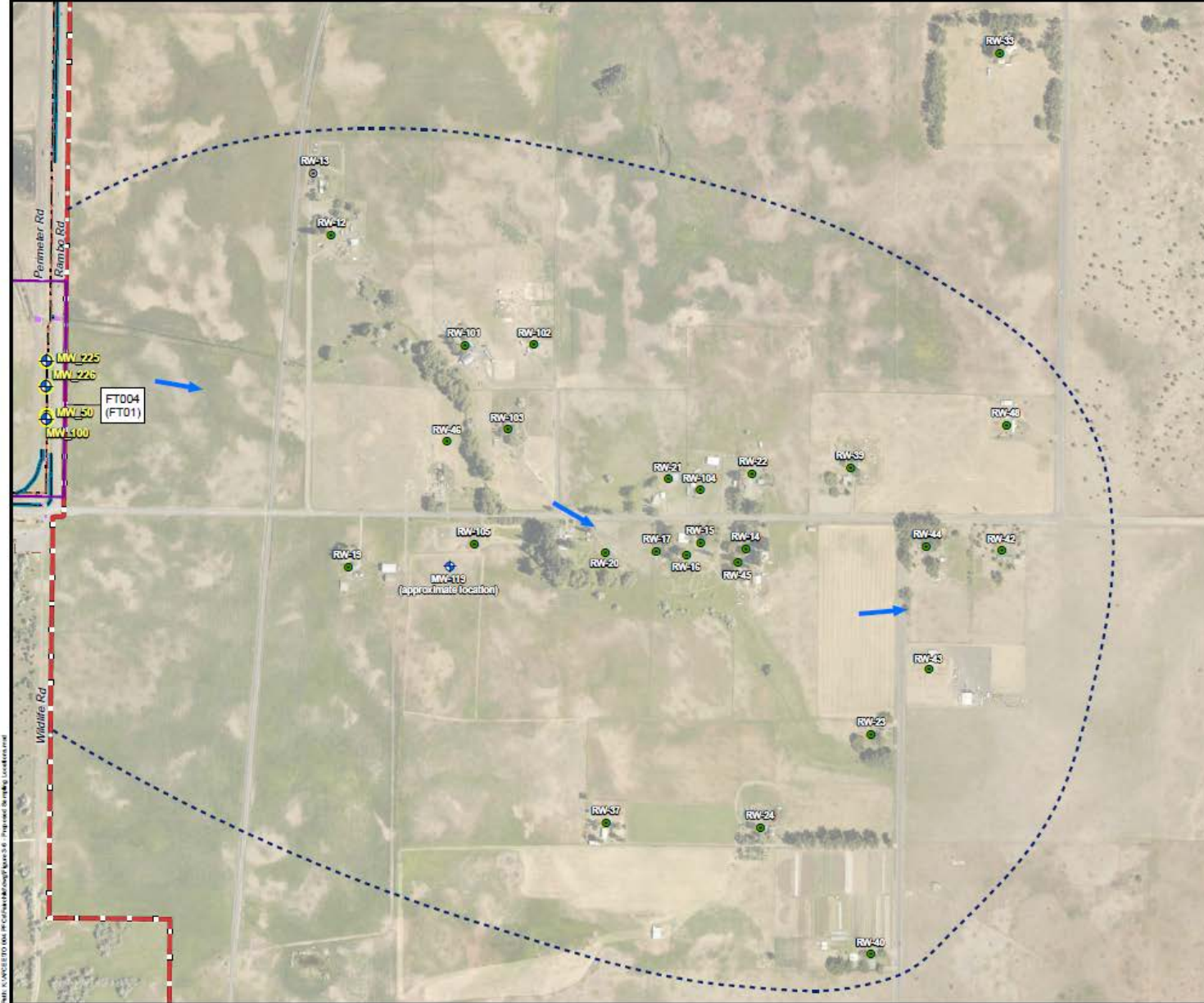













FIGURE 4
Proposed Sampling Locations
FT004 (FT01) and Downgradient Off-Site Wells
AFFF Release Area 1
Fairchild Air Force Base
Spokane, Washington

Site Inspection of
Aqueous Film Forming Foam (AFFF)
Release Areas
Environmental Programs Worldwide
Installation-Specific Work Plan

Air Force Civil Engineer Center



Symbol Key

-  Existing Monitoring Well (to be sampled)
 Private Well
 Private Well (abandoned)
 Monitoring Well
 Storm Line
 Storm Open Drainage
 Storm Culvert
 Approximate Uppermost, Shallow Groundwater Flow Direction
 Proposed Sampling Area
 Potential AFFF Release Area
 Fairchild AFB Installation Boundary

*Source: Figures 3,5,6 - Preliminary Assessment Report for Perfluorinated Compounds at Fairchild Air Force Base, Spokane, Washington, by CH2MHill, June 2015;
Figure 4 - AECOM Geologic Features Map (undated) provided by Air Force Civil Engineer Center.



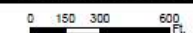
Project: 775303101

Date: 4/10/2017

By:SD

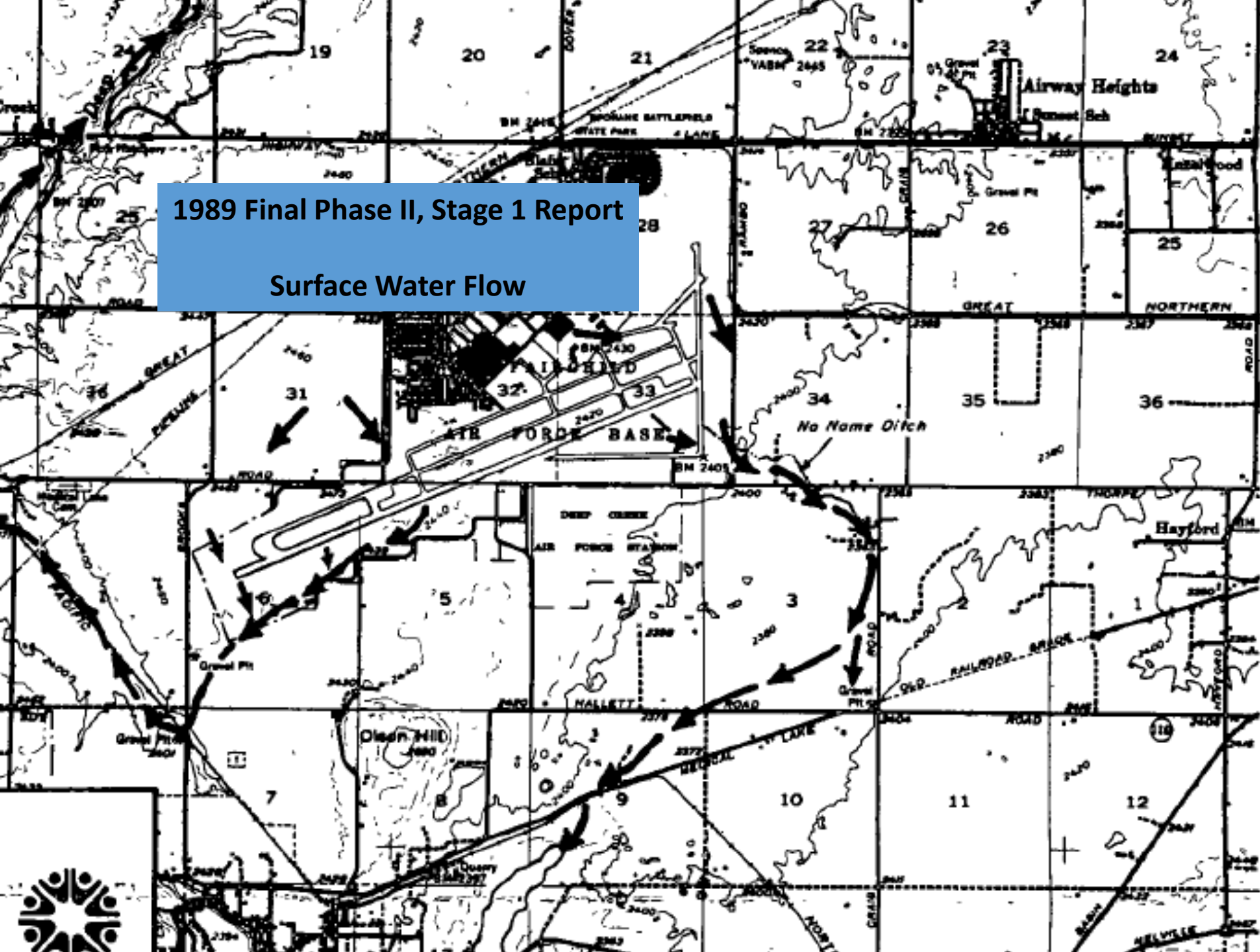
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

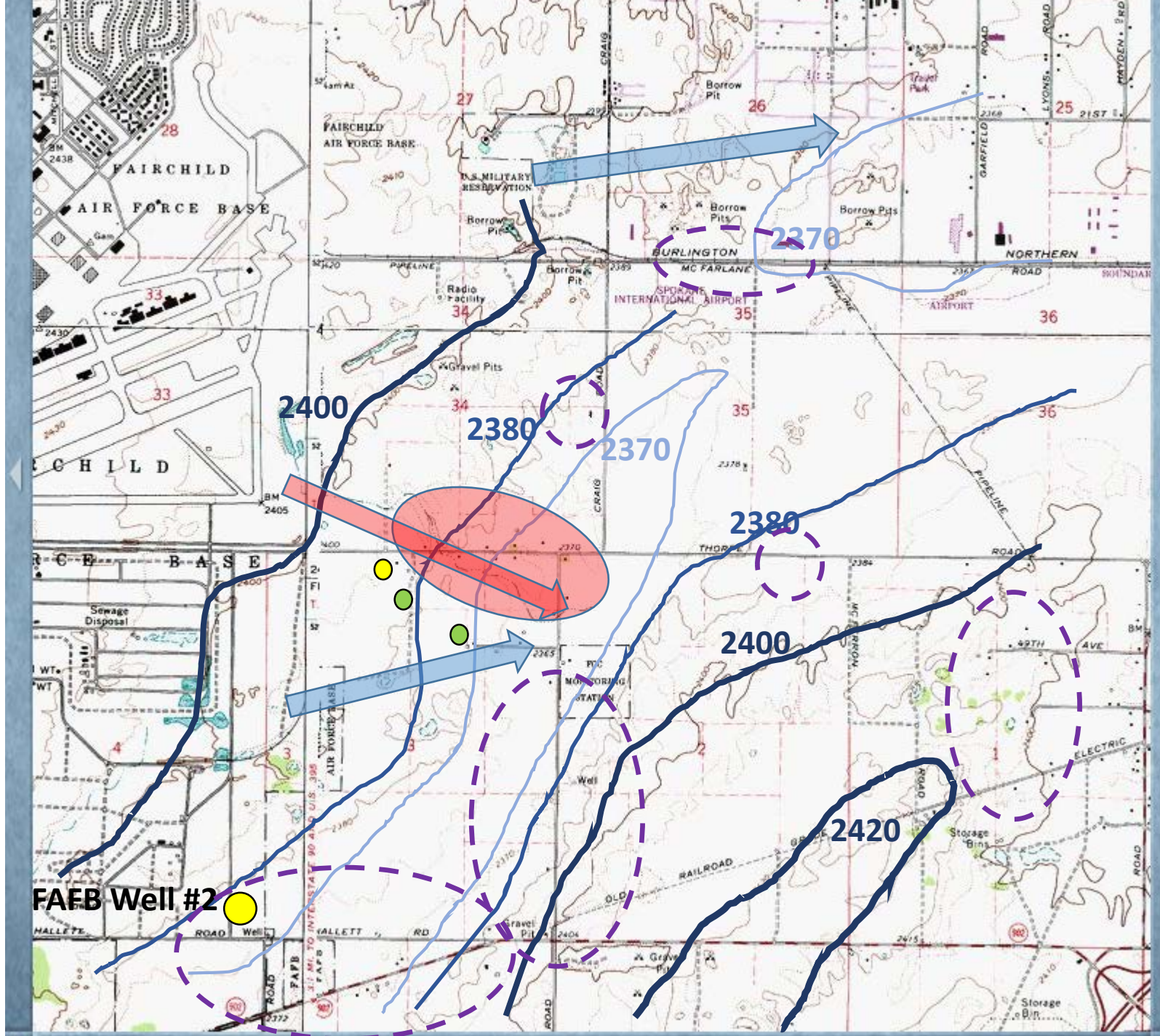
Disclaimer: For general reference purposes only.
DO NOT USE to determine, certify, or verify
map features, scale and/or other information.



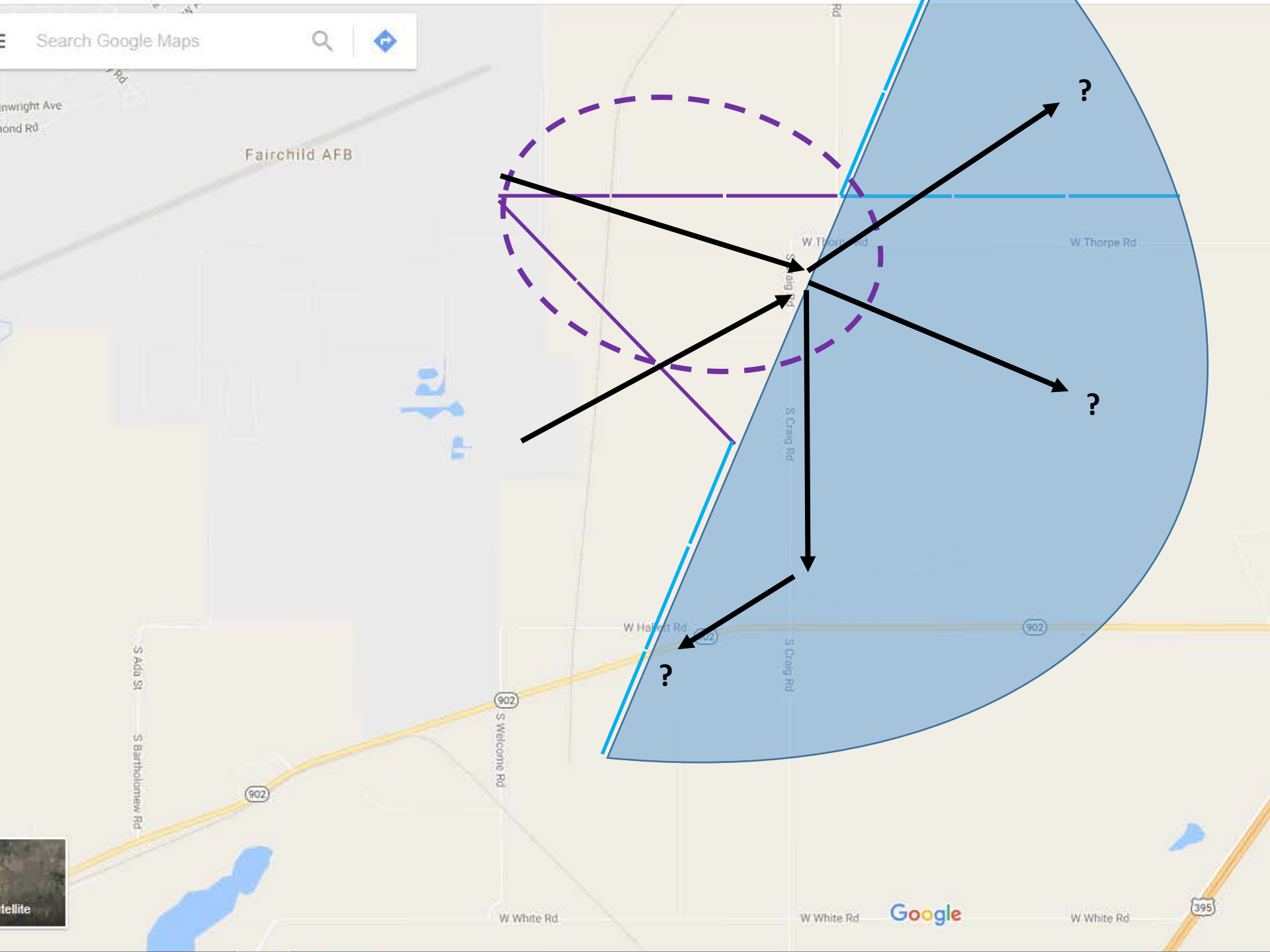
1989 Final Phase II, Stage 1 Report

Surface Water Flow





FAFB Well #2



Search Google Maps



Fairchild AFB

W Thorpe Rd

W Thorpe Rd

S Craig Rd

S Craig Rd

W Halbert Rd

S Ada St

S Bartholomew Rd

902

S Welcome Rd

W White Rd

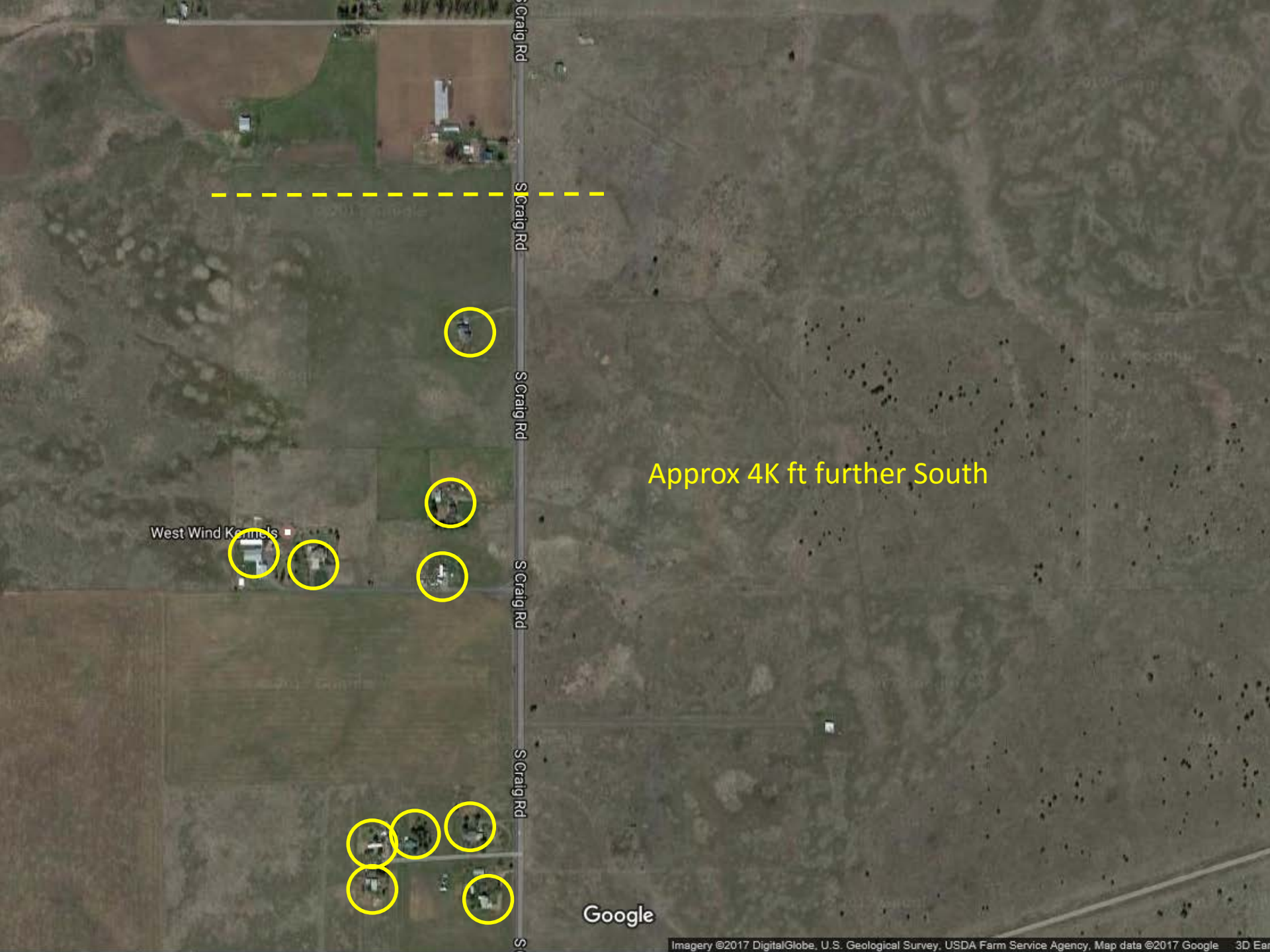
W White Rd

W White Rd

Google

395

satellite



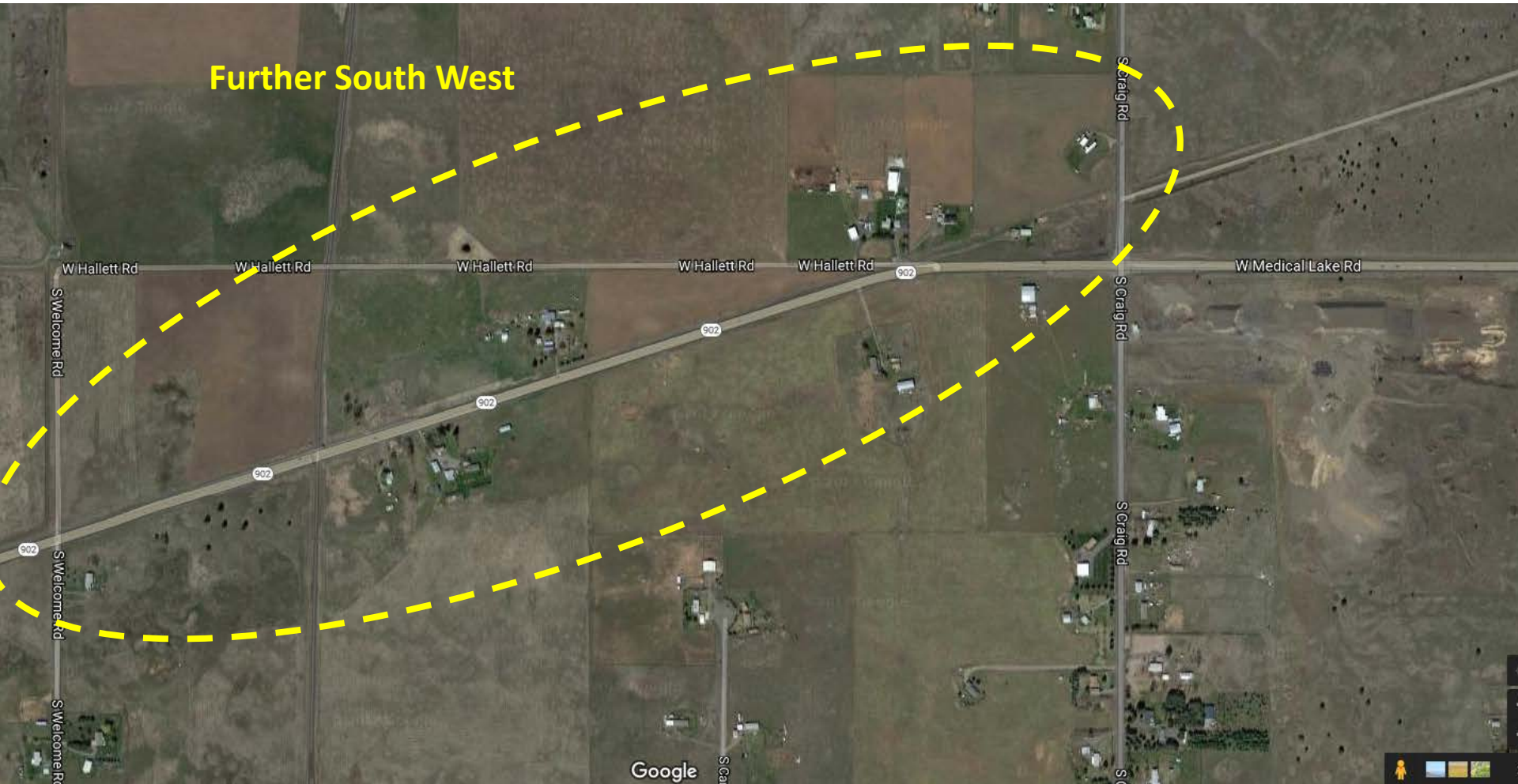
S Craig Rd
S Craig Rd
S Craig Rd
S Craig Rd
S

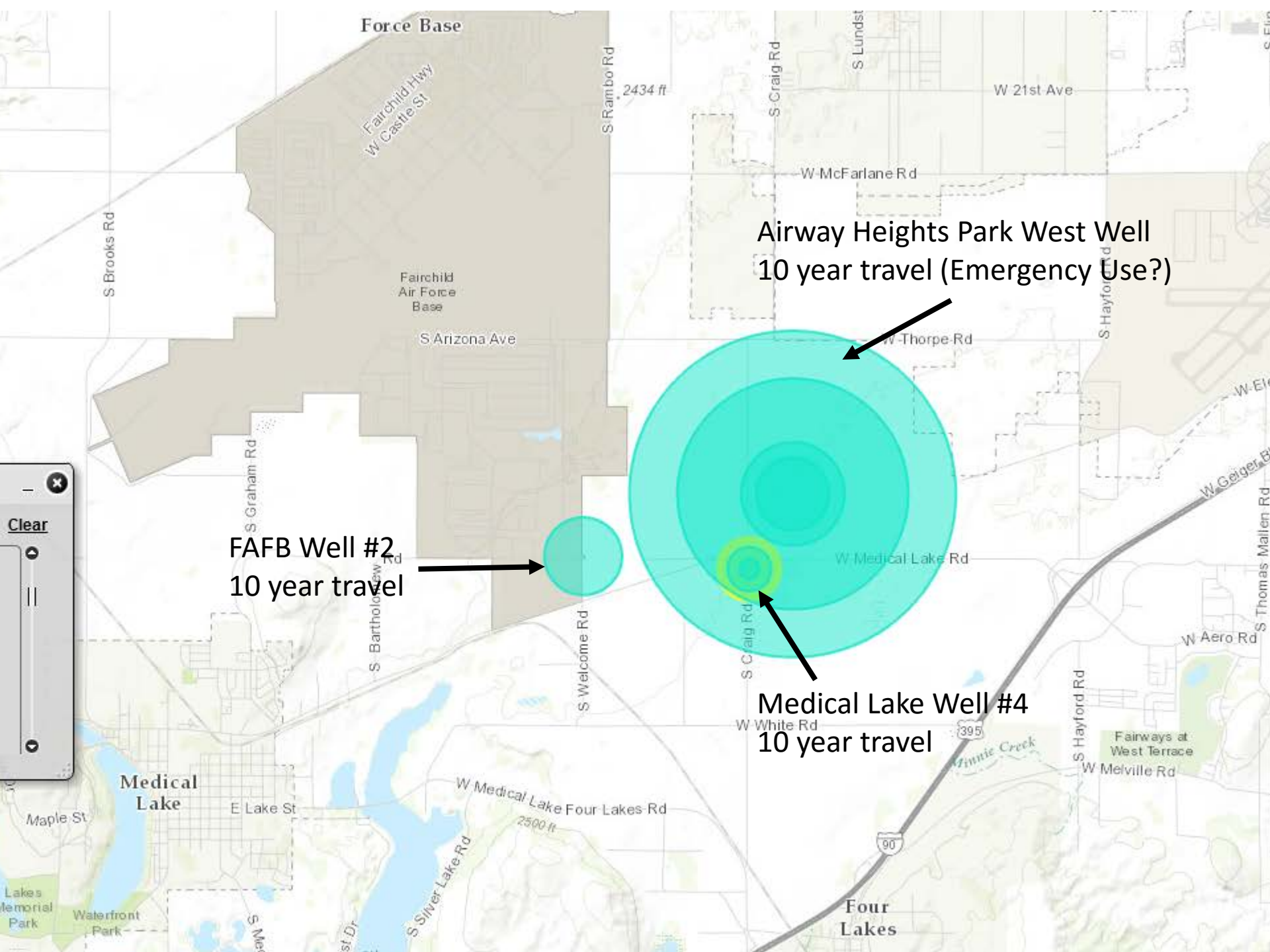
Approx 4K ft further South

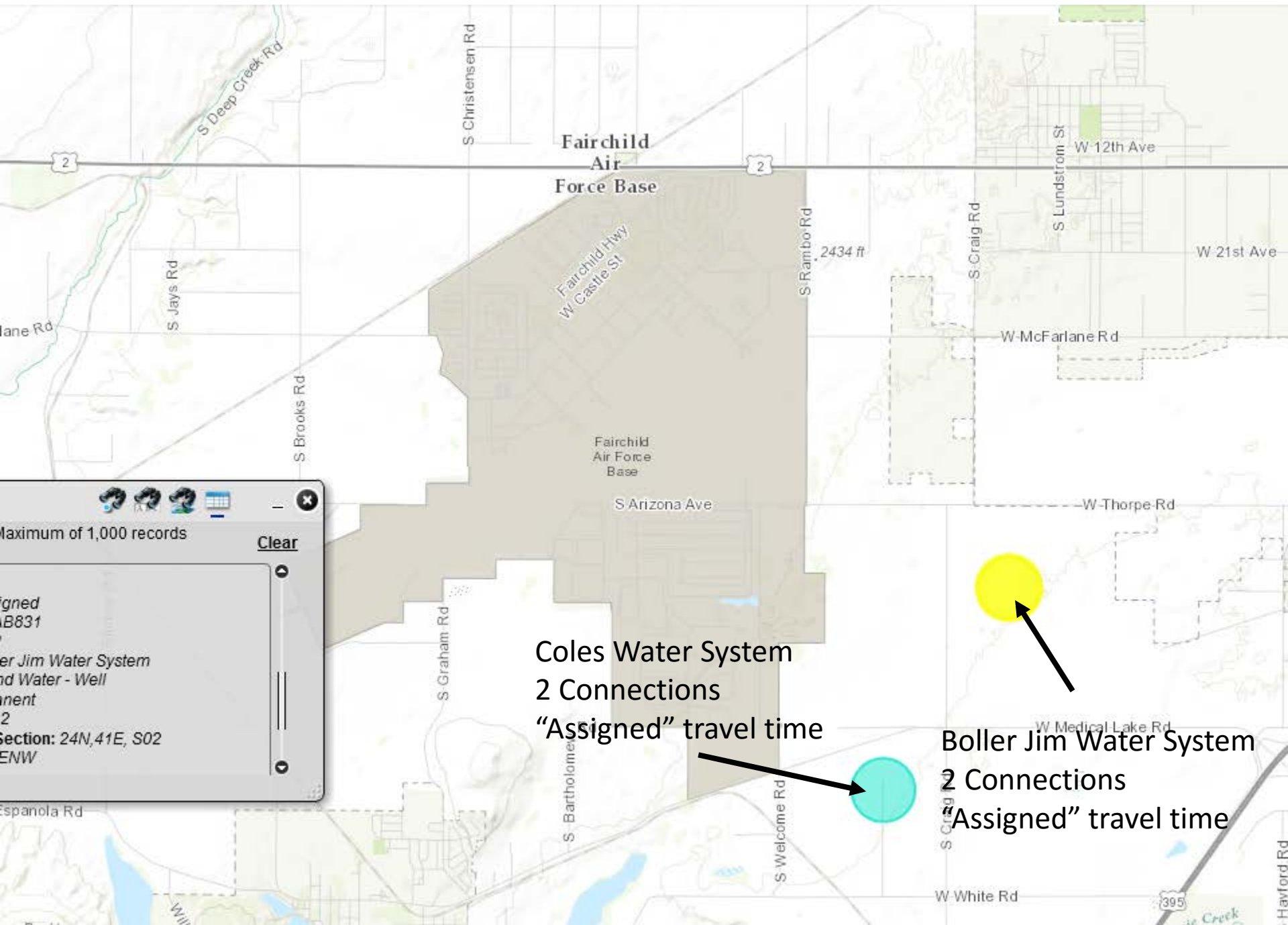
West Wind Kennels

Google

Further South West







Coles Water System
2 Connections
"Assigned" travel time

Boller Jim Water System
2 Connections
"Assigned" travel time

Maximum of 1,000 records

Clear

igned
B831

er Jim Water System
d Water - Well
nment
2

Section: 24N,41E, S02
ENW



Sign in

260/93 ppt

Approx 5500 ft (and uphill?)

440/210 ppt

Approx 8000 ft
(and uphill?)

Google



Northwest Auto Liquidators

Garco Building Systems

SHayfordRd

SHayfordRd

SHayfordRd

Rd

Approx 7000 ft
Airway Heights PS ¼
(sits in big alluvial scour channel)

Google

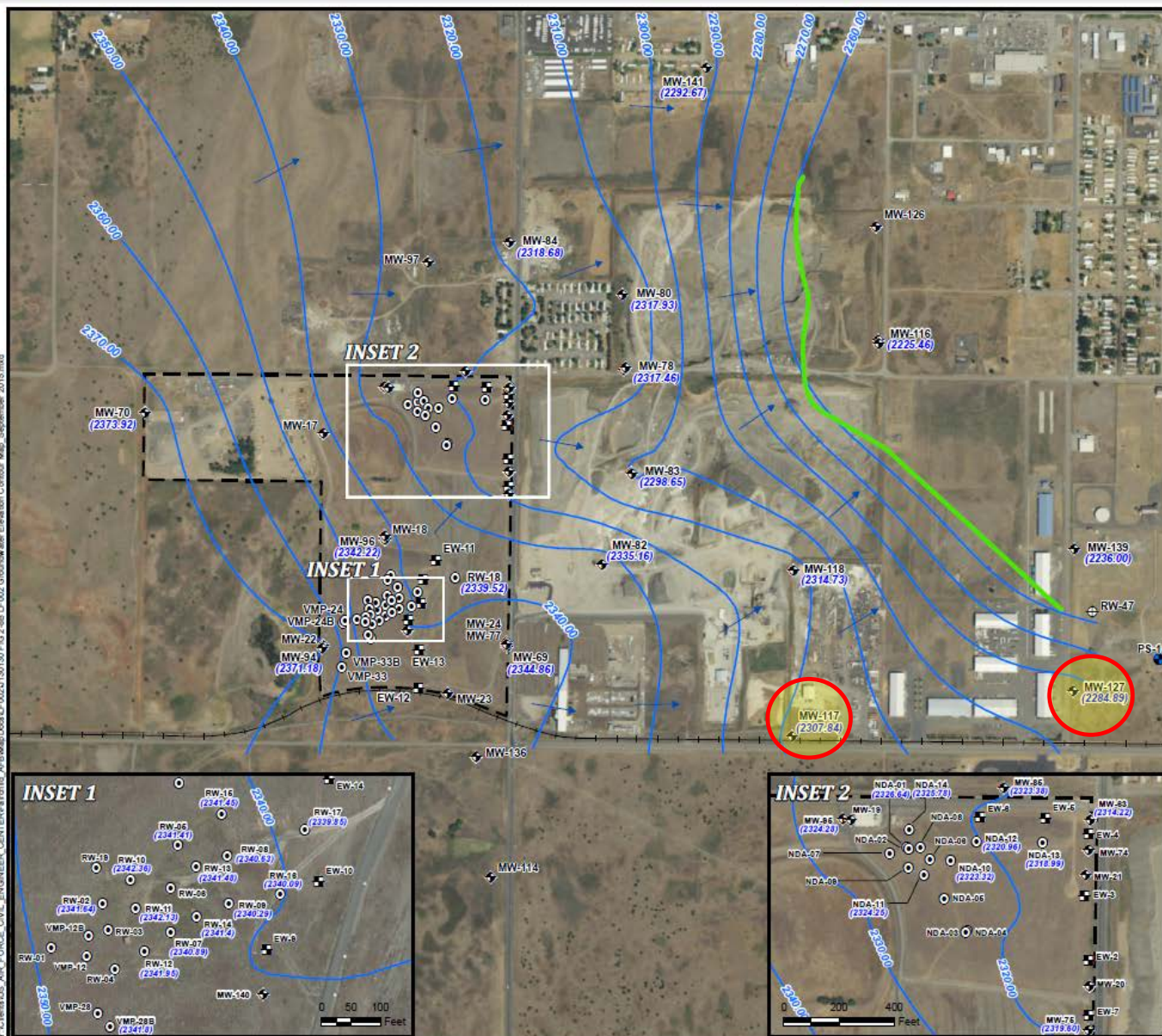


Table 2-1A LF002 (SW-8) CRL Extraction and Monitoring Well Network—Well Construction Details

Well	Casing Dia. (in.)	TD (ft bgs)	TOC Elev. ¹	Ground Elev. ¹	Screened Formation	Area	Screened Interval	
							Depth (ft bgs)	Elev (ft AMSL)
EW-2	6	158	2385.46	2391	Basalt A (top-mid)	Source Area/Capture Zone	38–108	2353–2283
EW-3	6	155	2390.32	2395	Basalt A (top-basal)	Source Area/Capture Zone	45–55	2350–2340
							75–145	2320–2250
EW-4	6	156	2396.95	2404	Basalt A (mid)	Source Area/Capture Zone	103–133	2301–2271
EW-5	4	156	2398.97	2403	Basalt A (basal)	Source Area/Capture Zone	135–155	2268–2248
EW-6	6	152	2399.54	2403	Basalt A (mid-basal)	Source Area/Capture Zone	82–148	2321–2255
EW-7	6	160	2388.16	2393	Basalt A (mid-basal)	Source Area/Capture Zone	87–158	2306–2235
EW-9	6	148	2387.48	2392	Basalt A (mid-basal)	Source Area/Capture Zone	83–144	2309–2248
EW-10	6	146	2388.83	2394	Basalt A (mid-basal)	Source Area/Capture Zone	80–141	2314–2253
EW-11	4	120	2388.61	2394	Basalt A (mid)	Source Area/Capture Zone	75–120	2319–2274
EW-12	6	143	2384.57	2389	Basalt A (top-basal)	Source Area/Capture Zone	34–136	2355–2253
EW-13	6	139	2382.67	2384	Basalt A (top-basal)	Source Area/Capture Zone	60–130	2324–2254
EW-14	6	155	2390.99	2404	Basalt A (mid-basal)	Source Area/Capture Zone	78–150	2326–2254
MW-63	4	105	2403.99	2402	Basalt A (mid)	Source Area/Capture Zone	94–104	2308–2298
MW-74	4	186	2402.25	2400	Basalt B (top)	Source Area/Capture Zone	173–184	2227–2216
MW-75	4	88	2394.91	2392	Basalt A (mid)	Source Area/Capture Zone	76–86	2316–2306
MW-77	4	96	2391.57	2390	Basalt A (mid)	Containment Compliance Zone	84–95	2306–2295
MW-78	4	101	2405.07	2403	Basalt A (mid)	Off-Site Contaminant Plume	88–99	2315–2304
MW-80	4	121	2419.43	2417	Basalt A (mid)	Off-Site Contaminant Plume	110–120	2307–2297
MW-82*	4	79	2380.28	2378	Basalt A (mid)	Off-Site Contaminant Plume	66–78	2312–2300
MW-83*	4	95	2343.7	2341	Basalt A (basal)	Nearby Unaffected Aquifer	79–89	2262–2252
MW-85	4	109	2408.34	2406	Basalt A (mid)	Containment Compliance Zone	97–107	2309–2299
MW-96	4	144	2396.27	2394	Basalt A (basal)	Source Area/Capture Zone	134–144	2260–2250
MW-116	4	274	2400.51	2398	Alluvium	Nearby Unaffected Aquifer	240–252	2158–2146
MW-118	4	114	2384.52	2382	Basalt A (mid)	Off-Site Contaminant Plume	98–108	2284–2274
MW-135*	4	169	2345.6	2443	Basalt B	Nearby Unaffected Aquifer	158–168	2285–2275
MW-139	4	182	2374.33	2372	Basalt B	Off-Site Contaminant Plume	172–182	2200–2190
MW-140	4	141	2396.52	2394	Basalt A (basal)	Source Area/Capture Zone	130–140	2264–2254
MW-141	4	168	2407.3	2405	Basalt A (basal)	Off-Site Contaminant Plume	158–168	2247–2237
Water Level Measurements Only								
MW-17	2	24	2404.67	2404	Alluvium	Nearby Unaffected Aquifer	7–23	2397–2381
MW-23	2	15	2387.55	2385	Alluvium	Containment Compliance Zone	8–13	2377–2372
MW-69	4	45	2391.23	2389	Basalt A (top)	Containment Compliance Zone	35–45	2354–2344
MW-70	4	28	2403.72	2401	Basalt A (top)	Nearby Unaffected Aquifer	18–28	2383–2373
MW-84	4	128	2414.16	2412	Basalt A (mid)	Nearby Unaffected Aquifer	116–126	2296–2286
MW-94	4	151	2403.6	2401	Basalt A (basal)	Containment Compliance Zone	140–150	2261–2251
MW-95	4	147	2402.76	2400	Basalt A (basal)	Nearby Unaffected Aquifer	137–147	2263–2253
MW-101	4	202	2406	2404	Basalt B	Off-Site Contaminant Plume	191–201	2213–2203
MW-115	4	180	2399.47	2397	Alluvium	Nearby Unaffected Aquifer	166–176	2231–2221
MW-117	4	166	2375.35	2373	Basalt A (basal)	Nearby Unaffected Aquifer	152–162	2221–2211
MW-127	4	187	2375.3	2373	Basalt A (basal)	Off-Site Contaminant Plume	177–187	2196–2186

Notes: ¹ = feet above mean sea level; elevations based on NGS NAVD (1988) TOC = top of casing

TD = total depth, bgs = below ground surface

* Ground surface at these wells was lowered due to gravel mining operations. Total depth and screened intervals shown are depths from current ground surface.